ONTARIO GUIDELINES FOR CLASSIFICATION OF PESTICIDE PRODUCTS

PESTICIDES ADVISORY COMMITTEE

May 1982

Ministry of the Environment

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ONTARIO GUIDELINES FOR

CLASSIFICATION OF PESTICIDES PRODUCTS

INTRODUCTION

Under the authority of the Pesticides Act, Revised Statutes of Ontario, 1980 and Regulation 751 administered by the Ministry of the Environment, all pesticide products sold in the Province of Ontario must be classified and assigned a schedule, and subsequent marketing of each product must be in accordance with the regulations relating to the classification. Six schedules exist and are described herein.

A function of the Pesticides Advisory Committee is to classify all such products. The resulting classification, when published in the Ontario Gazette, becomes an amendment to the regulations under the Pesticides Act.

DEFINITION

Pesticides are defined in the Pesticides Act and include products registered under the federal Pest Control Products Act, and fertilizer - pesticide products registered under the federal Fertilizer Act. The Ontario classification takes into consideration the marketable formulation when considering LD_{50} values, but the active ingredient when considering persistence of parent compounds or their metabolites. Specific use patterns relating to environmental impact or to the humaneness of pest animal control are also considered.

CLASSIFICATION PROCEDURE

All applications for classification must be submitted to the Chairman, Ontario Pesticides Advisory Committee, Ministry of the Environment, 2nd Floor, 1200 Bay Street, Toronto, Ontario M5R 2A5.

Information required for classification purposes is described on pages 8-9.

SCHEDULES DESCRIBED

Schedules 1 and 5

Schedule 1 pesticides are restricted and can only be used under the authority of a specific use permit. Schedule 5 pesticides are limited to application on agricultural land. Sales of both Schedule 1 and Schedule 5 pesticides are permitted only through wholesale vendors and holders of Class 1 retail vendor licences. A record must be kept of each sale.

The criteria for defining Schedule 1 include:

1) pesticides that pose a serious hazard to public health and/or the natural environment.

2) pesticides exhibiting acute oral LD_{50} values of less than 50 mg/kg (see Table 1).

3) pesticides exhibiting acute dermal LD_{50} values of less than 100 mg/kg (see Table 1).

4) pesticide formulations that are gaseous at room temperature and possess high inhalation toxicities at normal temperatures (see Table 1).

5) pesticides that are persistent and/or give rise to persistent metabolites that produce undesirable side effects on non-target organisms either by acute or chronic toxicity.

6) pesticides which through their mode of action may inflict unnecessary suffering to pest vertebrate animals.

The criteria for defining Schedule 5 include:

1) pesticides that pose a serious hazard to public health and/or the natural environment.

2) pesticides exhibiting acute oral LD_{50} values of less than 50 mg/kg (see Table 1).

3) pesticides exhibiting acute dermal LD_{50} values of less than 100 mg/kg (see Table 1).

4) pesticide formulations that have high inhalation toxicities at normal temperatures (see Table 1).

5) the lack of less hazardous control products which could provide adequate protection to agricultural crops.

Schedule 2

Pesticides and/or pesticide formulations in this group are restricted to agriculturalists, licensed exterminators and registered custom sprayers. Sales are permitted through wholesale vendors and holders of Class 1 and Class 2 retail vendor licences. Sales records must be kept.

The criteria defining Schedule 2 include:

1) pesticides that could pose a hazard but are considered suitable for use by the experienced professional applicator.

2) pesticides exhibiting medium acute oral toxicities (see Table 1).

3) pesticides exhibiting medium acute dermal toxicities (see Table 1).

4) pesticide formulations that have moderate inhalation toxicities at normal temperatures (see Table 1).

5) organic pesticides that do not present problems of long term persistence or accumulation in biological tissues, and those inorganic pesticides that may present a degree of hazard to the environment.

Schedule 3

Pesticides and/or pesticide formulations in Schedule 3 may be made available for domestic purposes as the hazards accompanying their use are considered minimal. Sale of Schedule 3 pesticide products is restricted to wholesale vendors and holders of Class 1, Class 2 or Class 3 retail vendor licences. Sales records are not required.

The criteria for defining Schedule 3 include:

1) pesticides or dispersants should pose minimal hazards to the environment or to public health.

2) pesticides exhibiting low acute oral toxicities (see Table 1).

3) pesticides exhibiting low acute dermal toxicities (see Table 1).

4) pesticide formulations that have low inhalation toxicities at normal temperature (see Table 1).

5) organic pesticides that are short-lived and do not produce either persistent or toxic metabolites.

6) those inorganic pesticides that present a minimal environmental hazard.

7) product residues should not pose a problem when 'empty' containers are disposed of in municipal garbage.

Schedules 4 and 6

Schedule 4

Pesticides and/or pesticide formulations in this group are those that can safely be handled by any type of outlet and would be available for sale in food handling establishments. Wholesalers are required to have at the least a limited wholesale vendor licence but no vending licence is required at the retail level.

The criteria for defining this group include:

1) pesticide formulations that can be considered relatively innocuous to humans. This includes compounds that are currently available for non-pesticide uses, or are used as insect or animal repellents classified as "Domestic" under the federal Pest Control Products Act, or are pesticides formulated in very low concentrations.

2) pesticide formulations exhibiting very low acute oral toxicities (LD_{50} values of greater than 5,000 mg/kg). Products for which the LD_{50} values are less than 5,000 mg/kg but greater than 2,500 mg/kg may be accepted if product toxicological data is presented (see Table 1).

3) pesticide formulations exhibiting very low acute dermal toxicities (see Table 1).

4) pesticides that are of no known hazard to the environment or to domestic pets.

5) all products must carry a federally approved "Domestic" label.

6) maximum package content must not exceed 1 kilogram by weight or 1 litre by volume, and all containers must be physically inspected and approved by the Pesticides Advisory Committee after acceptance of the active ingredients as Schedule 4 candidates.

Schedule 6

Pesticide products assigned to this group are identical to those in Schedule 4 but there is no limit to package size and the products may also be designated for commercial use. Sale of Schedule 6 pesticide products may be sold by wholesale vendors, limited wholesale vendors and holders of Class 1, Class 2, or Class 3 retail vendor licences.

GUIDELINES FOR ORAL, DERMAL AND INHALATION TOXICITY EVALUATION

TABLE 1

	Schedules 1 and 5	Schedule 2	Schedule 3	Schedules 4 and 6
Acute Oral LD_{50} (single dose - mg/kg)	0-50	50-500	500-5,000	over 5,000 (1)
Acute Dermal LD_{50} (single dose - mg/kg)	0-100	100-1,000	1,000-10,000	over 10,000
Inhalation Limits LC_{50} (continuous for 8 hours - mg/L air)	0-2	2-20	20-200	over 200

(1) an LD_{50} of $\geq$ 2,500 may be accepted for a schedule 4 or 6 candidate product if individual product toxicological data are provided.

Test Animals for toxicological data in order of preference:

(a) primates
(b) dogs and cats
(c) rodents
(d) fish and birds

Classification will be based on lowest valid LD_{50} values.
Other effects considered - carcinogenesis, etc.

CRITERIA FOR CLASSIFYING FERTILIZERS CONTAINING PESTICIDES

Fertilizers containing one pesticide active ingredient

Fertilizers containing only one pesticide active ingredient will be classified according to the classification for that active ingredient.

Fertilizers containing more than one pesticide active ingredient

a) Except as described in (b) below, fertilizers containing two or more pesticide active ingredients will not be accepted for normal classification and will be classified under Schedule 1.

b) Fertilizers containing two or more herbicides that are complementary for the control of a similar group of weeds will be classified according to the total percentage of all active ingredients present, e.g. 2,4-D, mecroprop, dicamba for broad leaf weed control in turf grass.

CLASSIFICATION CRITERIA FOR CONTROL PRODUCTS CLASSIFIED "RESTRICTED" UNDER THE PEST CONTROL PRODUCTS ACT

Where a pesticide product is submitted for classification under the Pesticides Act, and contains an active ingredient or a mixture of active ingredients acceptable under Schedule 3 or 6 but carries a federal label exclusively "Restricted" under The PCP Act, that product will be classified in a schedule no less restrictive than Schedule 2. The criteria for Schedules 1, 2 and 5 will be followed when classifying all other exclusively "Restricted" control products.

REVIEW OF PREVIOUSLY CLASSIFIED ACTIVE INGREDIENTS AND/OR PREVIOUSLY CLASSIFIED PESTICIDE PRODUCTS

Active ingredients are reviewed from time to time as additional technical data become available. Reclassification to a more restrictive or a less restrictive schedule may result, or the compound may remain in its original schedule. If, in the Committee's opinion, a more restrictive classification is deemed necessary, Registrants will be invited to appear before the Committee for discussion and clarification.

Where a Registrant desires a product review for the purpose of reclassification to a less restrictive category, a submission must be provided in writing, accompanied by supportive documents.

PACKAGING GUIDELINES: SCHEDULE 4 PRESICIDE PRODUCTS ONLY

All products must carry a federally approved "Domestic" label, and must meet Schedule 4 active ingredient classification guidelines.

MAXIMUM CONTENT

Maximum package content must not exceed 1 kilogram by weight or 1 litre by volume, and all containers must be submitted to the Pesticides Advisory Committee for physical inspection and approval.

SHAKER OR SIFTER CAN DISPENSERS

All shaker-can dispensers used in packaging pesticide products must have an approved device for reclosure. Formulators are invited to discuss those approved devices with the Committee. In some cases, a simple plastic cap, similar to that used on coffee cans, may be sufficient.

PRESSURIZED DISPENSERS

Every pressurized spray dispenser used in packaging pesticide products must have a cap, locking device or seal, so as to prevent accidental activation during transit, storage and display.

FOLDING PAPER BOARD CARTONS

Folding paper-board cartons may be approved when the product, if formulated as a granule, impregnated fabric, pellet, powder, particulate (e.g. rodent bait), solid, slow-release generator, tablet or wettable powder, is packaged in an acceptable inner liner (e.g. plastic or foil liner).

PLASTIC BAGS OR POUCHES

Plastic bags or pouches used to package rodent baits must be sufficiently strong to prevent accidental spillage during transit, storage and display, and must be packaged in an outer display carton. Individual bags or pouches, or those which, in the opinion of the Committee, could be easily torn, will not be approved.

GLASS BOTTLES

Glass bottles shall not be used for packaging Schedule 4 pesticides if, in the opinion of the Committee, such containers can be easily shattered or broken during transit, storage and display.

PAPER BAGS

No paper bags will be allowed in Schedule 4.

OTHER LIMITATIONS

Where, in the opinion of the Committee, a pesticide container can be mistaken for a food or toy container, the product will not be permitted in Schedule 4.

All labels must contain suitable guidance for the general public and must not be misleading.

APPROVAL OF NON-CONFORMING CONTAINERS

The Committee may approve non-conforming containers that, in its opinion, warrant special consideration due to the type of product or method of application of that product.

Registrants are encouraged to discuss with the Committee any packaging improvements they may make in order to conform with these requirements.

TRANSFER TO SCHEDULE 6

Domestic products containing only Schedule 4 active ingredients, but not meeting the packaging requirements, will be classified under Schedule 6.

INFORMATION REQUIRED FOR PESTICIDES CONTAINING NEW OR PREVIOUSLY UNCLASSIFIED ACTIVE INGREDIENTS (see Appendix)

If a Report of New Registration (RNR) has been issued by the Control Products Section, Agriculture Canada, items B, D.4 and E.1 below, need not be submitted.

A. General

1. Technical data sheet
2. Two copies of label text followed by two copies of federally approved label when printed.

B. Use Precautions

1. Flammability
2. Corrosiveness
3. Storage stability
4. Safety precautions for handling and application
5. Decontamination and disposal

C. Container

1. Type and size of containers
2. If classification in Schedule 4 is requested empty container samples complete with closures and labels must be provided (see Schedule 4 packaging guidelines).

D. Registration Information

1. One copy of application for federal registration under The Pest Control Products Act.
2. P.C.P. number and status (full or temporary registration)
3. P.C.P. classification (restricted, commercial or domestic)
4. Tolerance

E. Toxicology

1. Technical material: acute oral, dermal, and inhalation LD_{50}'s, subacute toxicity, teratogenicity, carcinogencity, other effects on mamals.

2. Formulated material: acute oral, dermal and inhalation LD_{50}'s

F. Other Ingredients

1. The Committee reserves the right to request information or data on carriers, solvents, inert materials, propellents and other ingredients.

G. Environmental and Other Hazards

1. The Committee reserves the right to request additional data should these be required.

H. Source

1. Information prepared by: Name and address of manufacturer preparing data and date of submission.

INFORMATION REQUIRED FOR CLASSIFICATION OF NEW PESTICIDE PRODUCTS CONTAINING PREVIOUSLY CLASSIFIED ACTIVE INGREDIENTS *

A. One copy of application for federal registration under the Pest Control Products Act.

B. Two copies of official label text followed by two copies of label when printed.

C. P.C.P. number and status (full or temporary registration).

D. Type and size of containers.

E. If the product(s) is a candidate for Schedule 4 (Domestic classification with no controls) and the acute oral LD_{50} is greater than 2,500 but equal to or less than 5,000 individual product toxicological data must be provided.

F. Container approval is required for all Schedule 4 products. Empty container samples complete with closures and labels must be submitted. (See Schedule 4 packaging guidelines on page 7)

G. The Committee reserves the right to request information or data on carriers, solvents, inert materials, propellents and other ingredients.

INFORMATION REQUIRED FOR CLASSIFICATION OF FERTILIZER-PESTICIDE PRODUCTS CONTAINING PREVIOUSLY CLASSIFIED ACTIVE PESTICIDE INGREDIENTS*

A. One copy of application for federal registration under the Fertilizer Act.

B. Two copies of official label text.

C. Registration Number.

D. Type and size of packaging.

E. The Committee reserves the right to request information or data on carriers, solvents, inert materials, propellents and other ingredients.

* See Appendix

ADDITIONAL INFORMATION

Section 6 of the Pesticides Act states:

"Unless exempt by the regulations, no person shall sell, offer to sell or transfer any pesticide unless the pesticide is classified by the regulations and except under and in accordance with a licence that shall be for such class and in respect of each premises on, in or from which the pesticide is or will be sold, offered for sale or transferred. R.S.O. 1980, c,376, s.6."

It is in the Registrant's interest to submit all new products for classification as early as possible or immediately following federal registration under the P.C.P. Act.

Additional information on classification can be obtained from the Ontario Pesticides Advisory Committee, 2nd floor, 1200 Bay Street, Toronto, Ontario, M5R 2A5, telephone (416) 965-7048.

Enquiries concerning marketing and use, and requests for copies of the Pesticides Act, Revised Statutes of Ontario, 1980 and Regulation 751 should be directed to the Pesticides Control Section, Ministry of the Environment, 7th Floor, 40 St. Clair Ave. W., Toronto, Ontario, telephone (416) 965-2401.

CLASSIFICATION OF IBT* SUPPORTED COMPOUNDS

The suggested classification of active ingredients appears in the Appendix (pages 11-26). Registrants are advised that certain compounds having IBT involvement, and against which data gaps still exist, may be classified in a more restrictive schedule than that indicated. For further information please contact the Committee Chairman.

* Industrial Biotest Laboratories

APPENDIX

ONTARIO CLASSIFICATION OF PESTICIDE ACTIVE INGREDIENTS

Revised May 1982

SYMBOLS

*	Schedule 5 - Agriculturist Use Permit Exemption
+	Subject to Container Approval, Otherwise Schedule 6
**	With Fire Retardant
#	Granular - Not for Broadcast Application
##	Annual Use Permit and Records of Location, Rates and Amounts Used
x	Approved Animal Collar
xSR	Approved Animal Collar. Slow Release Generator
xx	Approved Resin Strip or Paraffin Block

FUNGICIDES

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH.4+ or SCH.6
AAL	ally alcohol		all		
ANH	anthracene oil				all
ASP	asphalt				all
AUR	auramine			all	
BML	benomyl (Benlate)			all	
BTD	benzothiazyl disulfide			all	
BRL	binapacryl		>10%	≤10%	
BTO	bis (tri-N-butylin) oxide		>10%	≤10%	
BOA	boracid acid			>70%	≤70%
BNS	borax compounds			>70%	≤70%
TCM	Busan 72		all		
CDD	cadmium chloride		all		
CDS	cadmium sebacate		all		
CDU	cadmium succinate	all			
CAP	captan			>5%	≤5%
CHR	chloranil		>5%	≤5%	
CNB	chloroneb			all	
	carbendazim			all	
CPC	chloro-o-phenyl phenol		>5%	≤5%	
CPN	chloropicrin	>20%	≤20%		
CRA	cresylic acid			all	
CRG	m-cresol		≤50%	≤50%	
CRO	cromic acid	all			
CRT	creosote			all	
CUC	copper oxychloride sulphate		>30%	≤30%	
CUM	copper sulphate monohydrate		>30%	≤30%	
CUN	copper naphthenate			>3%	≤3%
CUO	copper oxide			all	
CUR	copper salts of resin and fatty acids			all	
CUS	copper sulphate crystals			all	
CUY	copper oxychloride		>30%	≤30%	
CUZ	cupric hydroxide		>30%	≤30%	
CVQ	copper 8-quinolinolate		>10%	≤10%	≤1%
CYC	cycloheximide		>0.75%	≤0.75%	
DAZ	dazomet		> 35%	≤35%	
DCH	dichlone			all	
DIK	dichloran			all	
DPH	dichlorophene			>50%	≤50%
DFT	difolatan		all		
DEX	fenaminosulf		>10%	≤10%	
DNP	dinitrophenol		>10%	≤10%	
DIN	dinocap		>10%	≤10%	

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH. 4+ or SCH. 5
DNB	dinoseb		>10%	≤10%	
BNT	disodium octaborate tetrahydrate			all	
DNC	dinitrocresol (DNOC)		>10%	≤10%	
DOM	dodemorph (Meltatox)			all	
DOD	dodine			all	
DYR	Dyrene		>50%	≤50%	≤5%
ETR	ethirimol (Milgo)			>10%	≤10%
ETO	ethylene oxide	all			
EMC	ethylmercuric chloride	all			
EMS	ethylmercury p-toluene sulfonanilide	all			
FEH	fentin hydroxide (du-Ter)	>50%	≤50%	≤5%	
FER	ferbam			all	
FOL	folpet			>5%	≤5%
FOR	formaldehyde			all	
GLY	glyodin			all	
HCB	hexachlorobenzene		all		
HCP	hexachlorophene		>5%	≤5%	
HMC	hydroxymercurichlorophenol	all			
HMN	hydroxymercurinitrophenol	all			
MAG	malachite green		>10%	≤10%	
MCZ	mancozeb			all	
MAN	maneb			all	
MBM	manganous benzothiozylmercaptide			all	
MDD	manganous bis (dimethyl-dithiocarbamate)	all			
MCC	mercuric chloride		all		
MSC	mercurous chloride		all		
MBR	methyl bromide	all			
MDB	methyl dodecyl benzyl trimethyl ammonium chloride			>10%	≤10%
MDX	methyl dodecyl xylene bis trimethyl ammonium chloride			>10%	≤10%
MIS	methyl isothiocyanate (Vorlex)		>50%	≤50%	
MMA	methylmercuric acetate	all			
MMB	methylmercuric benzoate	all			
MMD	methylmercuric dicyandiamide	all			
MMP	methyl mercury 2,3-dihydroxy propyl mercaptide	all			
MMO	methylmercury pentachlorophenolate	all			
MMT	methyl mercury propionate	all			
MTR	metiram (Polyram)			all	
NAB	nabam		all		

Fungicides (Continued)

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH. 4+ or SCH. 6
HQB	oxine benzoate		>10%	≤10%	
MMH	ozine methylmercury	all			
OXT	oxytetracycline hydrochloride (Terramycin)	all			
PFH	paraformaldehyde			all	
PCP	pentachlorophenols		>20%	≤20%	≥ 0.1%
PCS					
PAC	phenyl amino cadmium dilactate	all			
PMA	phenylmercuric acetate		all		
PML	phenylmercuric lactate		all		
PMF	phenyl mercury formamide	all			
PMO	phenyl mercury oleate		all		
PMT	phenyl mercury triethanol ammonium lactate	all			
POI	pine oil				all
KCR	potassium chromate		>15%	≤15%	
PTX	plantvax		>5%	≤5%	
QTZ	quintozene			all	
RED	rhodandinitrobenzene		>5%	≤5%	
IPD	iprodione (Rovral)			all	
SMM	sodium metaborate octahydrate			>50%	≤50%
STC	sodium tetrachlorophenate		>20%	≤20%	
STN	streptomycin			all	
SUS	sulphide sulphur (lime sulphur)			all	
SUL	sulphur				all
TET	tetrachloroisophthalonitrile (chlorothalonil)			all	
TCP	tetrachlorophenol		>20%	≤20%	
TZL	thiabendazole (Mertect)			all	
THI	thiram		>50%	≤50%	
CUB	tribasic copper sulphate		>30%	≤30%	
TRF	triforine (Funginex)				all
TPM	thiophanate-methyl (Basout)			>50%	≤50%
TRB	Truban (ethazole)			>40%	≤40%
TRR	triforine (Funginex)				all
VIT	Vitavax (carbathion)			all	
ZNN	zinc naphthenate			>3%	≤3%
ZPS	zinc petroleum sulfonate	all			
ZIN	zineb			>5%	≤5%
ZIR	ziram			all	

HERBICIDES

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH. 4+ or SCH. 6
ACL	acrolein	all			
ALA	alachlor			all	
AAL	allyl alcohol		all		
AMI	amitrole			all	
AMA	ammonium methyl arsonates			all	
AMS	ammonium sulfamate			>10%	≤10%
ASM	asulam (Asulox)			all	
ATR	atrazine		>15%	≤15%	
AVG	difensoquat (Avenge)		>70%	≤70%	
AZP	aziprotryn (mesoranil)			all	
BAR	barban			all	
BDX	Bladex - cyanazine		all		
BEN	benazolin			all	
BAL	benefin (Balan)			all	
BET	bensulide (Betasan)			all	
	Blagal		all		
BZN	bentazon (Basagran)		>80%	≤80%	
BZP	benzoylprop ethyl (Endaven)			all	
BTL	desmedimpham (Betanol 475)			all	
BOA	boracic acid			>70%	≤70%
BNS, BNA	borax compounds			70%	70%
BNP	borax pentahydrate			>50%	≤50%
BBU	bromacil		>15%	≤15%	
BRY	bromoxynil		all		
SUT	butylate (Sutan)			all	
CAC	cacodylic acid	all			
TAN	carbutylate (Tandex)		>15%	≤15%	
CHA	chloramben			all	
CBU	chlorbromuron			all	
CPN	chloropicrin	>20%	≤20%		
CLX	chloroxuron			all	
CIP	chlorpropham (CIPC)			all	
CHL	chlorthal			all	
CUM	copper sulphate monohydrate		>30%	≤30%	
CUT	cutrine		all		

HERBICIDES (Continued)

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH. 4+ or SCH. 6
DXA, DXB, DXS	2,4-D amines, salts and acids			>6%	≦6%
DXE	2,4-D esters (High volatile)	all			
DXE	2,4-D esters (low volatile)		all		
DPB	2,4-DB (butyl ester)		all		
DXO, TXO	N-oleyl 1,3-propylene diamine salt			all	
DAL	dalapon			all	
DAZ	dazomet		>35%	≦35%	
DIC	dicamba		>3%	≦3%	
DCB	dichlobenil			all	
DPP	dichlofopmethyl (Hoe-Grass)			>10%	≦10%
DIG	dichlorprop (amines)			> 6%	≦ 6%
DIH	dichlorprop-2,4-D esters (H.V.)	all			
DIH	dichlorprop-2,4-D esters (L.V.)		all		
DEA	dinitramine (Cobex)	all			
DNB	dinoseb		>10%	≦10%	
DIP	diphenamid		>50%	≦50%	
DIQ	diquat		>25%	≦25%	
BNT	disodium octaborate tetrahydrate			>50%	≦50%
DES	disul (sodium)	all			
DNC	dinitrocresol (DNOC)		>10%	≦10%	
DNP	dinitrophenol (DNP)		>10%	≦10%	
DUR	diuron		>15%	≦15%	
DMA	disodium methyl arsonate	all			
DPP	dichlorfopmethyl (Hoe-Grass)			>10%	≧10%
EPT	eptam			all	
ERB	erbon			all	
ENT	endothall		all		
FEN	fenuron	all		all##	
FMP	fenoprop salts and amines				
FNP	fenoprop HV esters	all			
FNP	fenoprop LV esters		all##		
FES	ferrous sulphate				all
FNC	fenac		all		
FLA	flamprop-methyl		all		

HERBICIDES (Continued)

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH. 4+ or SCH. 6
GLP	glyphosate			>50%	≤50%
GST	Hammer (GS 29696)		all		
HCY	hydrogen cyanamide		all		
DRB	kerb (pronomide)			all	
IOX	ioxynil (Totril)		>14%	≤14%	
KRE	ammonium ethyl carbamoyphosphorate (Krenite)			all	
LUN	linuron			all	
MAB MAS	MCPA (amines and salts)			all	
MAE	MCPA esters (high volatile)	all			
MAE	MCPA esters (low volatile)		all		
MBS	MCPB salts			all	
MEC	mecoprop salts			>6%	≤6%
MTM	metam (sodium)			all	
BAX	metribuzin (Sencor)		all		
MBR	methyl bromide	all			
MIS	methyl isothiocyanate		>50%	≤50%	
PAT	metobromuron	all			
MLR	metolachlor (CGA 24705)			all	
MTH	methachlor		all		
MOH	mineral oil (herbicidal)				all
MOL	monolinuron			all	
MSM	monosodium acid methane arsonate			all	
MON	monuron		>15%	≤15%	
MOO	monuron - TCA		all		
NAP	naptalam			all	
PLA	nitraline (Planavin)	all			
TOK	nitrofen	all			
OUT	cyprazine (Outfox)	all			
PAQ	paraquat (Gramoxone)		>3%	≤3%	
TIL	pebulate			all	
PCP PCS	pentachlorophenols	all			
PMP	phenmedipham (Betanal)			all	
PMA	phenyl mercuric acetate		all		
TOR TOS	picloram amines & salts (inorganic) (Tordon)		all##		
KCT	potassium cyanate	all			
PRM	prometone		>15%	≤15%	
PRO	prometryne		>15%	≤15%	

HERBICIDES (Continued)

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH. 4+ or SCH. 6
PRD	propachlor			all	
PRL	propanil			all	
PRF	propham			all	
PYZ	pyrazon (Pyramin)			all	
RAN, ALL	allidochlor (Randox)	all			
ROE	Ro-NEET			all	
TRS	siduron (Tupersan)			all	
SMZ	simazine		>15%	≤15%	
SAR	sodium arsenite (arsenic)	all			
SCL	sodium chlorate, mixtures		all	all**	
	sethoxydim			all	
SCC	sodium-chlorine complex		all		
SMP	sodium metaborate pentahydrate			>50%	≤50%
SMT	sodium metaborate tetrahydrate			>50%	≤50%
SMB	sodium metaborate			>50%	≤50%
SLN	solan			all	
SUA	sulfallate (Vegadex,CDEC)			all	
TXB	2,4,5-T amines			all##	
TXE	2,4,5-T esters (high volatile)	all			
TXE	2,4,5-T esters (low volatile)		all##		
TXO	N-oleyl 1,3-propylene diamine salt			all	
TBZ	terbuthylazine		all		
TBT	terbutryn		all		
TEB	tebuthiuron (Spike)		>15%	≤15%	
TER	terbacil (Sinbar)		all		
AZK	terbutol (Azak)			all	
TRL	triallate			all	
TCS	trichloroacetic acid			all	
TBA	trichlorobenzoic acid		all		
FNC	2,3,6-trichloro phenyl acetic acid		all		
TRF	trifluralin			all	
VER, VLT	vernolate (Vernam)			all	
VPR	velpar		all		
	mixtures of 2,4-D) mecoprop) amines and salts dichlorprop)			>6%	≤6%
	plus dicamba			>3%	≤3%

INSECTICIDES

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH. 4+ or SCH. 6
ABT	Abate (temephos)			all	
ACE	acephate		>40%	≤40%	
ACR	acrylonitrile	all			
ALP	aluminum phosphide (Phostoxin)	all*			
ALD	aldrin	all			
ALN, ALM	allethrin			>10%	≤10%
ADC	aldicarb (Temik)	all*			
AMC	aminocarb (Matacil)	>12%*	≤12%		
ANH	anthracene oil				all
ANY	antimonyl potassium tartrate	all			
CAR	calcium arsenate	all			
GOO	azinphosmethyl (Guthion)	>20%*	≤20%		
AZO	azobenzene	all			
ARP	arsenic pentoxide	all			
BTB	bacillus thuringiensis (Thuricide)			all	
BAY	propoxur (Baygon)		>20%	≤20%	≤1%
BAY	propoxur (Approved ant trap)				≤2%
BAY	propoxur				xSR
BZE	benzene			all	
BBE	benzyl benzoate			all	
BDC	bendiocarb (Ficam)	>80%	≤80%	≤10%	
BHC	benzene hexachloride - (γBHC, γ-HCH, Gammexane)	all			
LIN	benzene hexachloride - (lindane)	>75%	≤75%	≤5%	≤0.2% x
BRL	binapacryl (Morocide)	all			
BNA, BNS	borax compounds			>70%	≤70%
BOA	boracid acid			>70%	≤70%
BRO	bromophos (Nexion)			all	
HCN	calcium cyanide (Cyanogas)	all			
CAB	carbaryl (Sevin)		>80%	>8%	≤8%
CAB	carbaryl				xSR
CAF	carbofuran (Furadan)	>10%*	≤10%#		
CAD	carbon disulphide		all		
CTC	carbon tetrachloride		all		
CPT	carbophenothion (Trithion)	>60%*	≤60%		
CPN	chloropicrin	>20%	≤20%		
CLD	chlordane		>50%	≤50%	
CHD	chlordecone (Kepone)				

INSECTICIDES (Continued)

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH. 4+ or SCH. 6
CFV	chlorfenvinphos (Birlane, Supona)	>20%*	≦20%		
COA, COO	coal tar acids and oils				all
COU	coumaphos (Co-Ral)		>0.5%	≦0.5%	
CRT	creosote			all	
COY	terbufos	>2.5%*	≦2.5%		
CRA	cresylic acid			all	
CIN	crotoxyphos (Ciodrin)		>20%	≦20%	
RUE	crufomate (Ruelene)			all	
CYM	cypermethrin (Rip-cord)		>15%	≦15%	(1)
DDT	DDT	all			
DEM	demethn (Systox)	all*			
DIA	diazinon		>20%	≦20%	≦1%
DIA	diazinon (granular or dust)				≦2% Gr/Du.
VCR	dichlofenthion (Fenthion)		>50%	≦50%	
DVP	dichlorvos (Vapona, DDVP)		>15%	≦15%	xSR
DCF, KEL	dicofol (Kelthane)		> 4%	≦ 4%	
DIE	dieldrin	all			
DFB	diflubenzuron			>10%	≦10%
DMX	dimefox (Terra-Sytam)	all			
DIM	dimethoate (Cygon)		>40%	≦40%	
DMD	dimetilon (Snip)		285 mg/ft		
DNC	dinitrocresol (DNOC)		>10%	≦10%	
DIN	dinocap (Karathane)		>10%	≦10%	≧1%
DIX	dioxocarb (Famid)		>20%	≦20%	≦2%
DNB	dinoseb		>10%	≧10%	
DIS	disulfoton (Di-Syston)	>5% *	≦5%		
DUB	Dursban (chlorpyrifos)		>25%	≦25%	≦1%
DPA	diphenylamine		all		
BNT	disodium octaborate tetrahydrate			>50%	≦50%
DNP	dinitrophenol		>10%	≧10%	
ESF	endosulfan (Thiodan)		>6%	≦6%	
END	endrin	all			
ETH	ethion		>5%	≦5%	
EDB	ethylene dibromide		>20%	≦20%	
EDC	ethylene dichloride			all	
FEM	fenitrothion (Accothion, Folothion)		>50%	≦50%	
FEL	fensulfothion (Dasanit)	>15% *	≦15%		
FET	fenthion		>5%	≦5%	≦1%
FEN	fenvalerate (Belmark) (1)				
FBT	fenbutatin oxide (Vendex) (1)				

(1) Product classification based on product data

INSECTICIDES (Continued)

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH. 4+ or SCH. 5
DYF	fonofos (Dyfonate)	>10%*	≧10%		
FOM	formetanate hydrochloride (Carzol)	>50%*	≧50%		
FUN	chlorphenamidine (Fundal, Galecron)	all			
GAL					
HEP	heptachlor	all			
HCN	hydrocyanic acid	all			
	iodofenphos (Novanol N)			all	
SOA	insecticidal soaps				all
LAR	lead arsenate	>20%*	≧20%		
LEP	leptophos (Phosvel)	all			
LER	lethane	all			
LES					
LOV	lovozal 20W		all		
KPR	kinoprene (Enstar)			>40%	≧40%
TSF	MGK 264 (Synergist)				all
MIT	mitin			all	
MAL	malathion		>65%	≧65%	≧10%
MED	methidathion	>25%*	>2.5%	≧2.5%	
MEN	menazon (Saphos)		>7.4%	≧7.4%	
VAP	metam sodium (Vapam)			all	
MTM					
MCB	methiocarb	>30%	≧30%	≦ 3%	
MML	methomyl (Lannate)	>30%*	≧30%		
MPR	methoprene (Altosid)		all		
MET	methoxychlor			>5%	≧5%
MBR	methyl bromide	all			
MIS	methyl isothiocyanate (Vorlex)		>50%	≧50%	
MEV	mevinphos (Phosdrin)	all*			
MOM	methamidophos	>15%*	≦15%	≧0.5%	
MOR	oxythioquinox (Morestan)			all	
MGK	N-octyl bicycloheptene dicarboximide			>5%	≦5%
NAL	naled (Dibrom)		>50%	≦50%	≦10%
NIA	nicotine		> 4%	≦ 4%	
NPH	naphthalene				all
NPI	N-propyl isome (Synergist)				all
ODB	orthodichlorobenzene		>50%	≧50%	
OVX	ovex (Ovotran, chlorfenson)	all			
ODM	oxydemetonmethyl(meta-Systox R)		>10%	≧10%	
MSR					
OMI	omite			all	
	oxamyl	» 10%*	‹10%	≦ 3%	
PCP	pentachlorophenol		>20%	≧20%	≧0.1%
PDB	paradichlorobenzene				all
PTH	parathion-ethyl	all*			
PTH	parathion-methyl (metacide)	all*			
BPC	Pentac (dienochlor)			all	

INSECTICIDES (Continued)

CODE	MATERIAL	SCH. 1	SCH. 2	SCH.3	SCH. 4+ or SCH. 6
PMR	permethrin			all	
PER	perthane		>10%		≦10%
MOI	mineral oils				all
PHG	phenothrin				all
PHR	phorate (Thimet)	>15%*	≦15%		
PHS	phosalone (Zolone)		>25%	≦25%	
PRT	phosmet (Imidan)		>50%	≦50%	
PHF	phosphamidon (Dimecron)	all			
DHS	pinene ether				all
PBT	piperonal			>10%	≦10%
PIR	pirimicarb (Pirimor)		>20%	≦20%	
PLT	plictran		>50%	≦50%	
PYR	pyrethrins			> 1%	≦ 1%
PBU	piperonyl butoxide				all
RES	resmethrin			>10%	≦10%
RON	ronnel			> 5%	≦ 5%
RUE	crufomate (Ruelene)			all	
ROT	rotenone		> 5%	≦ 5%	≦ 2%
SAR	sodium arsenite	all			
SUL	sulphur				all
SUS	sulphide sulphur (lime sulphur)			all	
SIL	silicon dioxide				all
SFS	sodium fluosilicate		>20%	≦20%	
TPC	terpene polychlorinates (Strobane)	all			
STB					
SFT	sulfotep	>10%*	≦10%		
SFL	sodium fluoride	>15%	≦15%		
SFD	sulfoxide				all
TEP	TEPP	all			
GAR	tetrachlorvinphos (Gardona)			all	xSR
COY	terbufos	>2.5%*	≦2.5%		
TED	tetradifon (Tedion)	all			
NEO	tetramethrin (Neopynamin)			>10%	≦10%
THA	isobornyl thiocyanoacetate			> 2%	≦ 2%
TOX	toxaphene	all			

INSECTICIDES (Continued)

CODE	MATERIAL	SCH. 1	SCH. 2	SCH. 3	SCH. 4+ or SCH. 6
TRI	trichlorfon (Dipterex,Dylox, Neguvon, Anthon)			all	
TDE	TDE	all			
TRC	trichloronate (Agritox R)		>6.8%	≤6.8%	
TEC	technazene		all		
THS	thallium sulphate	>0.5%			≤0.5%
MTM, VAP	metam sodium (Vapam)			all	
ZRN	zectran	all			

NEMATOCIDES

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH.4+ or SCH.6
CPN	chloropicrin	>20%	≤20%		
DAZ	dazomet		>35%	≤35%	
DCP	dibromochloropropane (DBCP)	all			
VCR	dichlofenthion (Fenthion)		>50%	≤50%	
DSG	dichloropropene (Telone)		>50%	≤50%	
EDB	ethylene dibromide		>20%	≤20%	
EDC	ethylene dichloride				all
FEL	fensulfothion (Dasanit)	>15%*	≤15%		
MTM, VAP	metam sodium (Vapam)			all	

REPELLENTS

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH.4+ or SCH.6
AMP	4-aminopyridine		all##		
BON	bone oil			all	
BPG	butoxypolypropylene glycol (Crag)				all
BBE	benzyl benzoate			all	
CRA	cresylic acid			all	
CAS	capasaicin				all
JAK	citronyl (R.69)				all
INC	dimethylcarbutoxy dehydro-pyrone				all
DMP	dimethyl phthalate				all
DTU DTV	N,N-diethyl-m-toluamide			all	all
TAB	di-n-butyl succinate				all
EHX	ethyl hexanediol				all
EUC	eucalyptus oil				all
MNK	methyl nonyl ketone (MKG dog & Cat)				all
MGB	MKG Repellent II (D_2 butylene)-tetrahydrofurfural				all
MGD	MGK Repellent 326 (propyl isocinchomeronate)				all
MGH	MGK Repellent 874 (hydroxy ethyl N-octyl sulfide)				all
MUS	mustard oil				all
NPH	naphthalane				all
NYC	tertiary octyl mercaptan			all	
CIT	oil of citronella				all
LAV	oil of lavender (fly screen)				all
OAL	oil of lemongrass				all
OAN	oil of sassafras				all
PMB	polymerized butenes				all
PRT	protection 0.1 547				all
ROS	Rosemary oil				all
THI	thiram		>50%	≤50%	
THM	thyme oil				all
ZIC	zinc dimethyldithiocarbamate cyclohexylamine			>3.2%	≤3.2%

RODENTICIDES

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH.4+ or SCH.6
ALS	alphachloralose		all		
BRM	bromadiolone	>5%	≤5%	≥0.5%	≤0.05%
BRF	brodifacoum	>0.005%	≤0.005%		
MGB	butylene tetrahydrofurfural				all
CHP	chlorophacinone (Rozol)	>5%	≤5%	≥0.5%	≤0.05%
FUM	coumfafuryl (Fumarin)		>40%	≤40%	≤14%
DDT	DDT	all			
DPC	diphacinone (Diphacin)		>1%	≥1%	≤0.01%
END	endrin	all			
EGO	ergocalciferol	>10%	≤10%	≤1%	≤0.1%
GOP	gophocide	all			
HCN	hydrogen cyanide	all			
MBR	methyl bromide	all			
NOB	norbormide (Raticate)	>50%	≤50%		
PIN	pindone (Pival)	>5%	≤5%	≥0.5%	≤0.05%
RSQ	red squill	all			
STR	strychnine	>0.5%	≤0.5%		
STT	strychnine nitrate	>0.5%	≤0.5%		
STS	strychnine sulphate	>0.5%	≤0.5%		
SQS	sulfaquinoxaline (Na salt)	>5%	≤5%	≥0.5%	≤.05%
THS	thallium sulphate	>0.5%			≤0.5%
TOX	toxaphene	all			
WAR	warfarin	>5%	≤5%	≥0.5%	≤0.05%
ZNP	zinc phosphide	>10%	≤10%		
VAC	Vacor	>6%	≤6%		

OTHER COMPOUNDS

CODE	MATERIAL	SCH.1	SCH.2	SCH.3	SCH.4 or SCH.6
ACA, AAC	acetic acid			all	
ANR	antimycin (fish toxicant)		all		
AYC	cittowet			all	
BAS	bayluscide 5G (Molluscicide)		all		
	B-butoxy-B-thiocyanodiethyl-ether				
BIO	Biobar, J.F. (Bactericide)		all		
CCC	chlormequat	>90%	≧90%	≦10%	
COC	coconut diethanolamide				all
CFM	chlorflurecol			>25%	≦25%
DAM	daminozide		all		
CPA	4-chlorophenoxy acetic acid		>10%	≧10%	≧1%
ETA	1,2-ethanediol				all
ETF	ethephon (Ethrel)			>40%	≦40%
FAA, FAB	fatty alcohols			all	
IBA	indole-butyric acid		>10%	≧10%	≧1%
MAH	maleic hydrazide			all	
MFD	mefluidide (Embark)		>40%	≦40%	≦4%
MEY	methoxyethanol			all	
MIT	mitin FF (mothproofer)			all	
MOA	paraffin base mineral oil (adjuvant)				all
MYH	metaldehyde (Slug & Snail Bait)			all	
NAA	napthaleneacetic acid			all	
	octylphenoxypolyethoxy ethanol ester			all	
PAE	primary alcohol ethoxylate			>30%	≧30%
PRA	propionic acid			all	
PVP	polyvinyl polymer adjuvant			all	
TEM	bayluscide TGM WP (Sea Lamprey Larvicide)		all		
XAY	2,4-xylenol			all	
	2-9 triozone (Muscamone)				all